



Environmental
Quality

Facility Permit No: SLAS-19-02
East Coast Resources
Permit to Operate
June 14, 2016
Page 1 of 4

North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION


PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

East Coast Resources
Damon W. Woodall
51 Buttonwood Court
Fuquay Varina, NC 27526

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-19-02** located on SR#1912 in Chatham County at approximate position 35.62804° N latitude and -79.01775° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 6/14/2016


Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDEQ

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Damon Woodall and approved by the Division of Waste Management. **Although the approved nutrient management plan lists a "very high" application rate in excess of 15,000 gallons this monthly application rate shall not be used in the management of this site. The total disposal area contains approximately 91 acres which consists of fields #1 through #16.** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan. **The Division shall be notified in writing of a change to the approved crop (per the nutrient management plan) on any of the sixteen disposal fields.**
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Damon Woodall in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of grease septage.** Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application. **All grease septage shall be at pH 12 or higher when land**

applied regardless of whether the discharge is by injection or surface application method. Grease septage when applied over perennial vegetation shall be diluted per 15A NCAC 13B .0838(a)(15).

7. **This site contains approximately 91 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 4,550,000 gallons may be applied to this site. **Per 15A NCAC 13B .0838(b)(4) grease septage shall be land applied at a rate that is equal to or less than the agronomic rate, but in no case shall the application of untreated grease septage exceed 25,000 gallons per acre per year. Therefore, the maximum annual application rate of grease septage for this site is 2,275,000 gallons.** The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to each disposal field shall not exceed the maximum annual application rate listed above or the monthly application rates listed in the approved nutrient management plan.
8. An approved septage detention system with a minimum design capacity of 87,500 gallons, as per 15A NCAC 13B .0841(a) shall be available prior to operation of this site unless an approved disposal option is available for use during periods when land application is prohibited. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.

13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on September 7, 2019.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. **An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date.** A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17(b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. **Boundaries of the permitted septage land application fields shall be clearly marked on the ground.**
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

June 14, 2016

Mr. Damon Woodall
East Coast Resources
51 Buttonwood Court
Fuquay Varina, NC 27526

RE: **SLAS permit renewal**
East Coast Resources
SLAS-19-02
SR#1912 in Chatham County

Dear Mr. Woodall:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Chatham County. Your application has been approved and your permit, # **SLAS-19-02**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **September 7, 2019**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist
Division of Waste Management, NCDEQ

Enclosures

cc: files
Wallace Woodall
Chatham County Health Department

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APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

RECEIVED
AUG 03 2015

I. Site and Operator Information

1. Applicant

Address

Phone

EAST COAST RESOURCES

DAMON W WOODALL

51 BUTTONWOOD CT

FUQUAY VARINA NC 27526

919-557-1995 919-422-6465

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

2. Contact person for site operation (if different from applicant): **DAMON W WOODALL**
Title or position **PRESIDENT** Phone **SAME AS ABOVE**
Address **SAME AS ABOVE**

3. Landowner

Address

WALLACE WOODALL

PO BOX 1127

FUQUAY VARINA NC 27526

4. Site Location: County **CHATHAM** State Road Number **1912**
Directions to site: **US 1 SOUTH TO OLD US 1, TURN ON TO CHRISTOPH CHAPEL CHURCH RD. 960 ON THE RIGHT**

5. Indicate whether request is: new _____ renewal **X** modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: **SLAS 19-02** permit expiration date: **9-6-15**

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: **91** acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
(a) None **NONE**, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.**

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report. **STATE ANALYSIS**

10. Attach a vicinity map (county road map showing site location).

(over)

ATTACHED

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDAS 19-02
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks _____
 - (b) Grease trap pumpings X
 - (c) Portable toilet waste _____
 - (d) Commercial / Industrial septage _____
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): LIME STABILIZATION. HYDRATED LIME USED TO RAISE THE PH TO 12 AND HOLD FOR 2 HRS PRIOR TO LAND APPLICATION
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): FIELD SPREADER OR INJECTION DEPENDING ON CROP
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): AGRICULTURAL

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Damon W. Woodall

Signature***

DAMON W. WOODALL

Print name

7-9-2015

Date

PRESIDENT

Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.

RECEIVED
AUG 27 2015

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

I, G. Wallace Woodall (name of site owner) hereby certify that I am the owner of
235 acres of land located SR 1912
and identified by Book 547, Page 101 (book and page of recorded deed
or tax map parcel) and that I agree to allow East Coast Resource (name of site
operator) to use said land for septage land application for a period of 2 years (length
of time), beginning 9/7/2017 (month, day and year) and that I have read the
North Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on
land use after septage land application ends **. I further understand that no septage may be land applied
until the Division of Waste Management has issued a permit for a septage land application site. The above
described property is owned solely by me or jointly with _____

(names of all co-owners, or state none).

Signature of landowner George Wallace Woodall Date 8/24/15

Signature of landowner _____ Date _____

Sworn to and subscribed before me this 24th day of August, 20 15.

Linda S. Wallace
(Notary Public)

My Commission expires: 11-15-2015

(OFFICIAL SEAL)

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0843

East Coast Resources

P.O. Box 1127 Fuquay Varina, NC 27526
Telephone: (919) 577-1995 Fax: (919) 577-1998

RECEIVED
AUG 03 2015

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

Nutrient Management Plan

General Information

This plan is developed for East Coast Resources. This plan is specific to the following sites referenced in this report and on the attached maps, and located in Chatham County, NC:

The purpose of this plan is to develop a comprehensive site management system that allows the maximum utility of the nutrients from the applied grease trap septage, while minimizing the potential negative effects of the unused nutrients of the environment. With any agronomic system, effective management is the key. Cropping growth patterns and nutrient uptake vary with weather, so the manager must make appropriate decisions on cropping planting times and harvest times. The plan also assumes that the cropping systems are well-managed, including the use of mechanical or chemical weed and pest control to obtain a reasonable yield. All crops must be harvested and removed from the site in order to keep this a sustainable system. Annual soil testing as required by the permit will help track nutrient buildup.

- 1) "Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck or tanker wagon to leave a depression in the soil or sod greater than 3 inches in depth)"
- 2) Grease septage must be stabilized to a pH of 12 for 2 hours prior to land application.
- 3) Crops grown on the site are to be used for animal feed only- no direct human food chain is allowed. There must be a minimum of 30 days between the harvest date of the crop and the last application of septage or grease septage.

Erosion Control

The site must be managed to minimize erosion and runoff. A minimum of 30 foot buffers are in place to accomplish this. These buffers should also be soil sampled and properly maintained. Additional nutrients and lime may be required occasionally to maintain these grassed areas.

Nutrient Sources

The nutrient sources for this site will be grease trap septage from numerous locations, as well as commercial fertilizers. Septage rarely contains a balanced nutrients supply source, so that supplemental specific fertilizer may be required. The annual soil test must be consulted for all nutrients except nitrogen. Where the soil test gives a nutrient recommendation, the first step is to determine if that nutrient amount is being met by the septage.

Soil pH must be maintained at a level conducive to best crop growth and maximum nutrient uptake. If there is a definite permit requirement, then you must maintain that. Otherwise, a minimum pH of 6.0 is recommended for the crops to be used in your system. However, a maximum pH should also be targeted, as high pH can be as injurious as low pH. The soils should not be allowed to exceed a pH of 7.0. When performing annual soil tests, supplemental lime will be recommended if necessary. The annual soils test is sufficient in monitoring soil pH levels. Sometimes, soil pH will drop below 6.0, but will have no lime recommendation. This is because the crop may still be in a good range with pH in the upper 5 range, as well as the fact that it is not economical to apply the very small amount of lime to just get the pH back above 6.0. Since you may have a permit condition of 6.0, it is acceptable to go ahead and apply the lime at the minimal possible rate. This may boost the pH to over 6.5, but again the target to try to not exceed is a pH of 7.0. A lime addition should last several years (2-4) before the pH drops again to a level requiring more lime. If the material is lime stabilized, the long-range application rate may need to be adjusted by the liming capability of the material, as opposed to a nitrogen-limiting application rate.

Nutrient Amounts

The amount of septage to be applied will be dictated by its plant available nitrogen (PAN). This assumes, as mentioned above, that a high pH material is not the limiting factor. Since septage varies greatly from load to load, a standard value for N of 2.6 pounds per 1,000 gallons is assigned. The amount of septage per site then is calculated by the expected yield for the crop and its proposed N rate. This will be shown for all crops in a later table.

Nutrient Placement

The septage will be applied in one of 2 ways:\

The *injection method* applies the septage with injectors. This nitrogen then is more plant available due to the increased use of any ammonia-nitrogen in the septage (up to 50% volatilizes if surface applied). When using this method, the fields will essentially be fallow. However, this method can be used into a small-grain cover crop if need to help minimize the potential for runoff. If this occurs, a repeat planting will need to occur to utilize the nutrients.

The *surface application method* applies the septage to the ground surface. This method can only be used when the threat of runoff is low. This septage can be applied to a permanent grass cover. Application rates may need to be adjusted to insure that the grass cover is not smothered with septage. This can sometimes occur with very thick septage (above 7% solids) or if heavy applications are used. Generally, a rate of about 15,000 gallons per acre should not be exceeded to minimize this potential.

Nutrient Application Timing

The chart on the following page shows the timing of applications recommended for the crops to be grown. It is generally recommended that application be made withing 30-~~30~~ days prior to planting a crop or a permanent crop breaking dormancy. With septage, because the nutrients are heavily tied up in the organic fraction and must be mineralized, there is some flexibility with these recommendations. Overall, a maximum of ~~30~~ days pre-plant should be the target for this management system.

30
Damon W. Waller

common
Waller

Planted Crops and Seed Rates:

Fescue: plant August 25 to October 15 or February 15 to April 5. Drill at 15 pounds per acre or broadcast at 20 pounds per acre. If broadcast drag or cultipak lightly after seeding. For maintenance broadcast is acceptable in light stand areas. Judgement must be used for rate. If large areas are bare, treat each area as a new seeding, determine the approximate acreage of the area and use new seeding rates.

Bermuda Grass: Plant March 1 to August 15. Drill at 4-6 pounds per acre or broadcast at 10-12 pounds per acre. If broadcast drag or cultipak lightly after seeding. For maintenance broadcast is acceptable in light stand areas. Judgement must be used for rate. If large areas are bare, treat each area as a new seeding, determine the approximate acreage of the area and use new seeding rates.

Oats: plant as soon as possible after corn-harvest. September 1- December 1. Drill with 90 to 100 pounds per acre or broadcast after disking and either drag or roll cultipak for good seed-soil contact.

Annual Ryegrass: plant as soon as possible after corn-harvest. September 1- December 1. Drill with 80 to 90 pounds per acre or broadcast after disking and either drag or cultipak for good seed-soil contact.

Wheat: plant as soon as possible after corn-harvest. September 1- December 1. Drill with 75 to 120 pounds per acre or broadcast after disking and either drag or roll cultipak for good seed-soil contact.

Millet: plant April 1- July 15. Drill at 20-30 pounds per acre or broadcast after disking and either drag or roll cultipak for good seed-soil contact.

Corn: plant as soon as soil temperature warms above 60 degrees (early to mid April) or up until mid-May. Seeding rate dependent on desired stand density; 22,000 to 30,000 plants per acre will give reasonable density to meet RYE uptake.

Harvested Crops

Fescue: Harvested ongoing as hay: no planting dates but maintenance seeding February 15, or August 15 to October 15. A 30-day waiting period must be observed between the last application of septage and harvest. The fescue will be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence. This will usually take place in late May and again in September or October. At least two fescue harvests will be made each year.

Bermuda Grass: The Bermuda grass will be cut as hay and baled whenever it reaches approximately 12 inches in height, or roughly ever 4 to 6 weeks beginning in June. At least three harvests will be made from each field each year.

*it as
hay*
Winter Small Grains (Oats, Rye, Wheat): Planted typically August 15 through December 1; harvested as grain May 15- July 1; harvested as hay April 1 through June 15.

Donna W. W. W. W.
Millet: No maximum height. One cutting prior to small grain planting. Winter crops may be no-til or minimum tillage.

Corn: Will be harvested for deer corn; Harvested September 1- November 30.

there will be a ^{minimum} 30 day wait between the last application of septage and the harvest of a crop.

Donna W. W. W. W.

Revised
per Dawn
Woodall

Present Crops:

Field #	Acres	Crop Sequence
1	8.84 8.9.	Fescue
2	5.26 5.2.	Fescue
3	2.20 2.0.	Small Grains or Millet
4	9.73 9.8.	Small Grains or Millet
5	2.99 3.0.	Fescue
6	1.93 1.9.	Fescue
7	5.01 5.0.	Small Grains or Millet Fescue
8	3.21 3.2.	Small Grains or Millet
9	10.64 10.8.	Fescue
10	2.25 2.2.	Small Grains or Millet Fescue
11	15.28 15.4.	Small Grains or Millet
12	1.32 1.4.	Small Grains or Millet Fescue
13	8.28 8.3.	Bermuda
14	2.98 3.0.	Bermuda
15	4.76 4.8.	Small Grains or Millet
16	5.85 5.9.	Bermuda

Note: Double cropping and crop choices may depend on weather conditions.

Realistic Yields

The nutrient application rate for each crop should be based on an expected realistic yield (RYE) for the crop planted on soil type. The dominant soil on all fields is Creedmoor-Green Lever Complex. The following are the realistic yields that can be expected for each cropping system. Included in the table is a recommended N application rate per unit of yield, per-acre basis.

Crop	Rye	N recommendation	PAN application amount (lbs/Acre)	Septage application volume (gal/acre)
Fescue Hay	4.0 T/Acre	45 lbs N/dry ton	180	69, 231
Bermuda Hay	5.9 T/Acre	40 lbs N/dry ton	236	90, 769
Small Grains	2.0 T/Acre	55 lbs N/dry ton	110	42, 307
Millet	3.0 T/Acre	46 lbs N/dry ton	136	52,308
Corn	90	1.20 lbs N/bushel	108	41, 538

Relative Application Rate for Fescue

Month	Rate
January	Low
February	Medium
March	Very High
April	Very High
May	High
June	Medium
July	Low
August	Low
September	Very High
October	Very High
November	Medium
December	Low

Relative Application Rate for Bermuda Grass:

Month	Rate
January	None
February	None
March	None
April	Medium
May	High
June	Very High
July	Very High
August	Very High
September	Medium
October	None
November	None
December	None

+

Relative Application Rate for Small Grains:

Month	Rate
January	Low
February	Low
March	High
April	Very High
May	High
June	Low
July	None
August	Medium
September	High
October	High
November	Medium
December	Low

Relative Application Rate for Millet:

Month	Rate
January	Low
February	Low
March	Very High
April	Very High
May	Very High
June	High
July	None
August	Medium
September	High
October	High
November	Medium
December	Low

Relative Application Rate for Corn

Month	Rate
January	Low
February	Low
March	Very High
April	Very High
May	Very High
June	None
July	None
August	None
September	Very High
October	Very High
November	Medium
December	Low

Application Rate

None: 0 gallons
 Low: 0- 5,000 gallons
 Medium: 5,000- 10,000 gallons
 High: 10,000- 15,000 gallons
 Very High: 15,000 - 25,000 gallons

★ *very high rate shall not be used* ★

Note: Cumulative application rate is not to exceed the permitted application rate.

Grease septage not to exceed 25,000 gallons per acre per year on all fields.

Summary

Following the recommended application rates and times in the tables in this plan will help insure proper nutrient management of the septage. This plan should be modified if fields are adjusted or crops are to be changed. This guidance is suitable for most years, but particular situations may require the manager to make decision outside the recommendations in order to protect water quality and/or crop health. Where applicable, an agronomist or extension specialist should be contacted for assistance with such decisions. These decisions may require prior approval from the N.C. Division of Solid Waste Management. This plan meets the requirements specified under the rules for septage management- 15A NCAC 13 B section .0822 (a)(13). This plan is based on NCSU-Cooperative Extension Service guidance along with NRCS recommendations and technical standard 590.

Signatory Page

This nutrient management plan was revised to simplify the previous plan that has been submitted in prior years. I, Damon W. Woodall, have prepared this plan to the best of my knowledge with information supplied to me by Karl Shaffer, North Carolina Division of Waste Management, North Carolina State University, N.C. Cooperative Extension, Natural Resources Conservation Service, and the North Carolina Department of Agriculture and Consumer Relations.

Damon W. Woodall — 7-9-2015



Field 1
8.9 ac

Field 2
5.2 ac

Field 3
2.2 ac

Field 4
9.8 ac

Field 5
3.0 ac

Field 6
1.9 ac

Field 7
5.0 ac

Field 11
15.4 ac

Field 10
2.2 ac

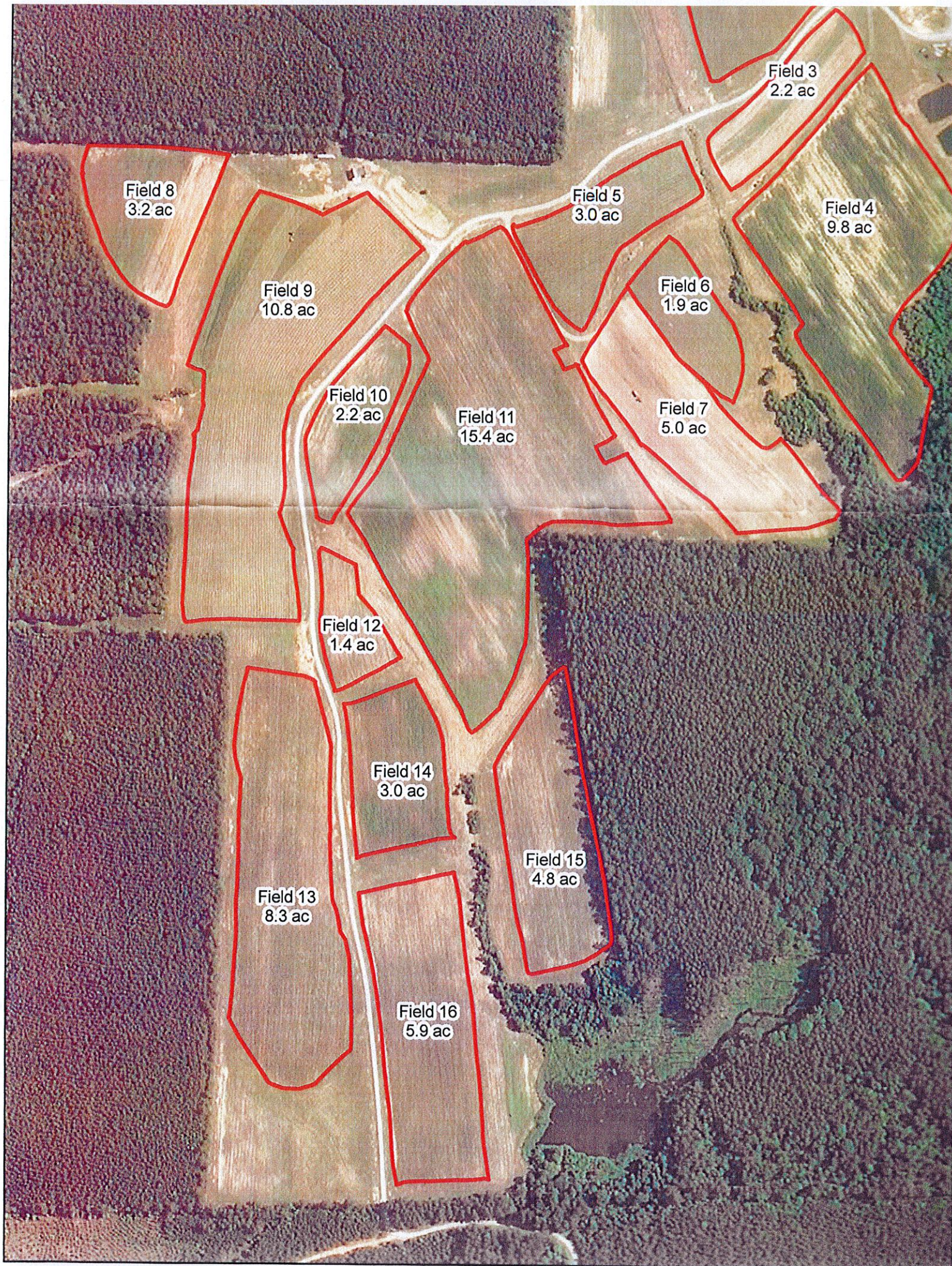
Field 12
1.4 ac

Field 14
3.0 ac

Field 15
4.8 ac

Field 9
8 ac

Field 13
3 ac

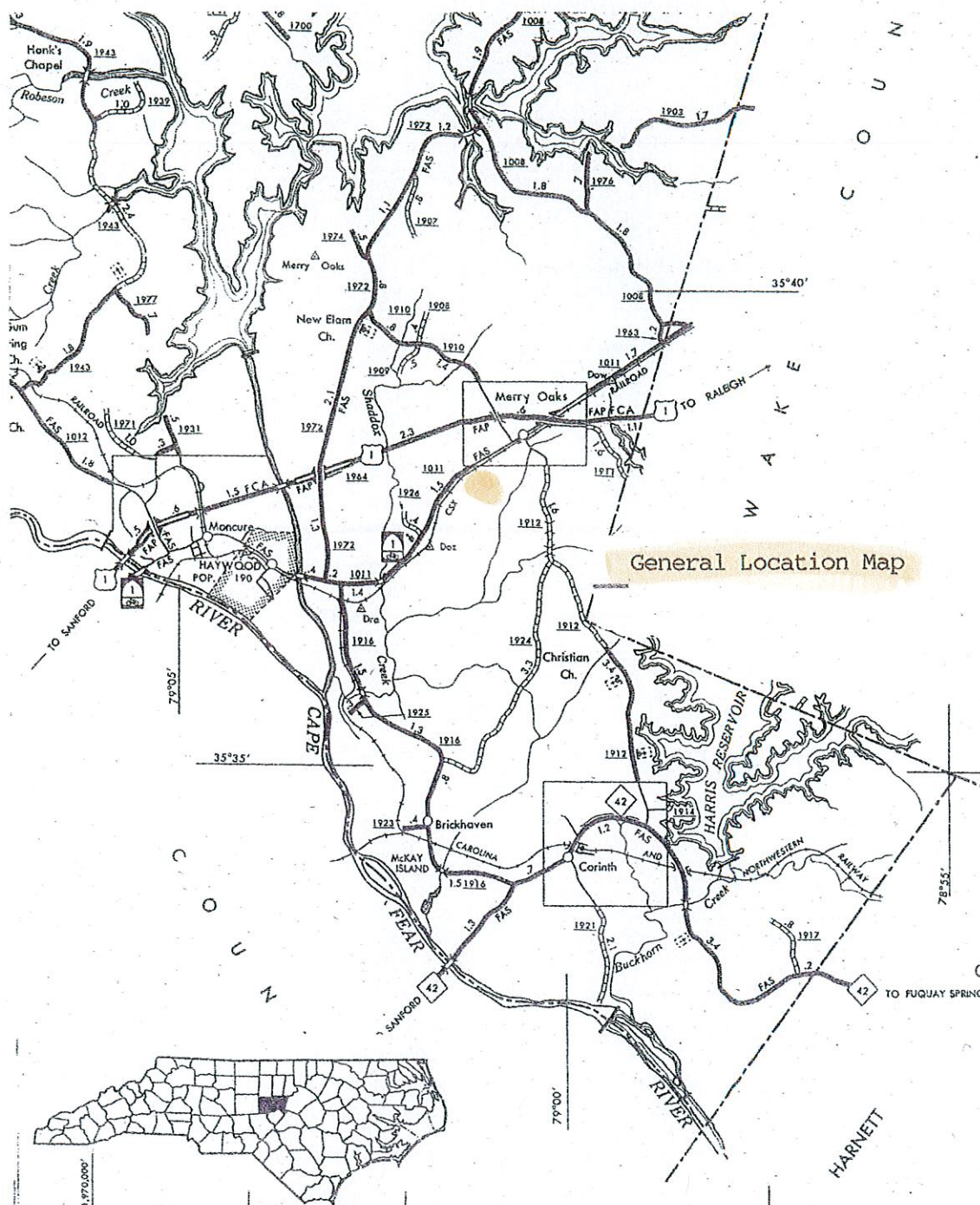


600

300

0

600 Feet



CHATHAM COUNTY

NORTH CAROLINA

PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS—PLANNING AND RESEARCH BRANCH
 IN COOPERATION WITH THE
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

JAN 29 2008

